



DISCOVERY WORLD FURNITURE INC.

2963 STONEWALL PLACE, SANFORD, FL 32773 USA.

The following sample(s) was/were submitted and identified by the client as:

SGS Job No. : VNHL2104007216TY

Sample Description : 0218 BOLT TOGETHER WOODEN TWIN/FULL BUNK BED
BOLT TOGETHER WOODEN TWIN/FULL BUNK BED SIDE RAILS, PLYWOOD
2818 BOLT TOGETHER WOODEN TWIN/FULL BUNK BED COLOR BOARD
2118 BOLT TOGETHER WOODEN TWIN/FULL BUNK BED COLOR BOARD
3218 BOLT TOGETHER WOODEN TWIN/FULL BUNK BED COLOR BOARD
BOLT TOGETHER WOODEN TWIN/FULL BUNK BED SIDE RAILS, PLYWOOD
LAMINATED MDF FACE & BACK
BOLT TOGETHER WOODEN TWIN/FULL BUNK BED SIDE RAILS, EDGE
GLUED PINE

Color : WHITE; MERLOT; HONEY; CHARCOAL

Characteristic : PINE; PLYWOOD; MDF

Buyer : WATERFALL INDUSTRIES INC.,
DBA DISCOVERY WORLD FURNITURE INC.

Country of Origin : VIETNAM

Country of Destination : US

Sample Receiving Date : APRIL 14, 2021

Final Confirmed Date : APRIL 14, 2021

Testing Period : APRIL 14, 2021 TO JUNE 16, 2021

Test Requested : PLEASE REFER TO THE RESULT SUMMARY.

Test Results : PLEASE REFER TO NEXT PAGE(S).

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Result Summary :

Test Requested	Conclusion
I. PHYSICAL TEST	--
ASTM F1427 – 19 Standard Consumer Safety Specification for Bunk Beds	Pass/ See result
16 CFR 1513 – Requirements for Bunk Beds	Pass/ See result
16 CFR 1213 – Safety Standard for Entrapments Hazard In Bunk Bed	Pass/ See result
Static Load - Edge Test – As Client's requirement	Pass/ See result
Distributed Load Capacity – As Client's requirement	Pass/ See result
II. CHEMICAL TEST	--
CPSIA section 101(f) and 16 CFR 1303 – Lead in paint/similar surface coating material	Pass/ See result
Lead in accessible substrate materials – As Client's requirement	Pass/ See result

Signed for and on behalf of
SGS Vietnam LTD



Ung Thanh Van
 Hardline Lab Manager

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Test results:

Sample Description:

No.	Component	Material	Color
1	0218 BOLT TOGETHER WOODEN TWIN/FULL BUNK BED BOLT TOGETHER WOODEN TWIN/FULL BUNK BED SIDE RAILS	1 FINISHED PRODUCT	WHITE

I. PHYSICAL TEST

ASTM F1427 – 19 Standard Consumer Safety Specification for Bunk Beds

Clause	Test method and Requirement	Result
		1
Clause 4.1	Performance Requirements	PASS
Clause 4.2	Fit of Top Bed to Bottom Bed	PASS
Clause 4.3	Mattress and Foundation Size and Fit (Top Bed)	PASS
Clause 4.4	Mattress Size and Fit (Lower Foundation)	PASS
Clause 4.5	Upper and Lower Foundation Support Systems	PASS
Clause 4.6	Side Rails	PASS
Clause 4.7	Guardrails	PASS
Clause 4.8	Bed Structure	PASS
Clause 4.9	Ladders	PASS
Clause 4.10	Metal Beds: Frame and Fastenings	NA
Clause 5	Test Method	PASS
Clause 5.10	Permanency of Labels and Warnings	PASS
Clause 6	Marking and Labeling	PASS
Clause 7	Instructional Literature	PASS

Note: NA: Not Applicable

Remark: This / these test(s) was / were performed by SGS Vietnam's Hardline lab.
The above test(s) was / were accredited ISO 17025:2017 by VILAS.

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16 CFR 1513 – REQUIREMENTS FOR BUNK BEDS

Test Item	Test method and Requirement	Result
1513.3 Requirements		1
<i>1513.3(a) Guardrails</i>		
	Any bunk bed shall provide at least two guardrails, at least one on each side of the bed, for each bed having the underside of its foundation more than 30 inches (760 mm) from the floor.	PASS
	One guardrail shall be continuous between each of the bed's end structures. "Continuous" means that any gap between the guardrail and end structure shall not exceed 0.22 inches (5.6mm) (so as to not cause a finger entrapment hazard for a child).	PASS
	The other guardrail may terminate before reaching the bed's end structures, providing there is no more than 15 inches (380mm) between either end of the guardrail and the nearest bed end structures.	PASS
	For bunk beds designed to have a ladder attached to one side of the bed, the continuous guardrail shall be on the other side of the bed.	PASS
	Guardrails shall be attached so that they cannot be removed without either intentionally releasing a fastening device or applying forces sequentially in different directions.	PASS
	The upper edge of the guardrails shall be no less than 5 inches (130 mm) above the top surface of the mattress when a mattress of the maximum thickness specified by the bed manufacturer's instructions is on the bed. <i>This requirement does not prohibit a wall-side guardrail that terminates in a quarter-circle bend and attaches to the side rail of the upper bunk foundation.</i>	PASS
	With no mattress on the bed, there shall be no openings in the structure between the lower edge of the uppermost member of the guardrail and the underside of the upper bunk's foundation that would permit passage of the wedge block of this part when tested in accordance with the procedure at §1513.4(a).	PASS
<i>1513.3(b) Bed end structures</i>		
	The upper edge of the upper bunk end structures shall be at least 5 inches (130 mm) above the top surface of the mattress for at least 50 percent of the distance between the two posts at the head and foot of the upper bunk when a mattress and foundation of the maximum thickness specified by the manufacturer's instructions is on the bed.	PASS



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Test Item	Test method and Requirement	Result
		1
	With no mattress on the bed, there shall be no openings in the end structures above the foundation of the upper bunk that will permit the free passage of the wedge block when tested in accordance with the procedure at § 1513.4(b).	PASS
	When tested in accordance with § 1513.4(c), there shall be no openings in the end structures between the underside of the foundation of the upper bunk and upper side of the foundation of the lower bunk that will permit the free passage of the wedge block, unless the openings are also large enough to permit the free passage of a 9 inch (230 mm) diameter rigid sphere.	PASS
	All portions of the boundary of any opening required by §§ 1513.4(c)(1) and (2) to be probed by the wedge block, and that permits free passage of a 9-inch diameter sphere, must conform to the neck entrapment requirements of § 1513.4(c)(3).	PASS
1513.5 Marking and labeling		
1513.5(a)	There shall be a permanent label or marking on each bed stating the name and address (city, state, and zip code) of the manufacturer, distributor, or retailer; the model number; and the month and year of manufacture.	PASS
1513.5(b)	The following warning label shall be permanently attached to the inside of an upper bunk bed end structure in a location that cannot be covered by the bedding but that may be covered by the placement of a pillow. <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">▲ WARNING</p> <p>To help prevent serious or fatal injuries from entrapment or falls:</p> <ul style="list-style-type: none"> • Never allow a child under 6 years on upper bunk • Use only a mattress that is __ inches long and __ inches wide on upper bunk • Ensure thickness of mattress and foundation combined does not exceed __ inches and that mattress surface is at least 5 inches below upper edge of guardrails <p style="text-align: center;">DO NOT REMOVE THIS LABEL</p> </div>	PASS
1513.6	Instructions. Instructions shall accompany each bunk bed set, and shall include the following information.	PASS

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Test Item	Test method and Requirement	Result
		1
1513.6(a)	<p><i>Size of mattress and foundation.</i></p> <p>The length and width of the intended mattress and foundation shall be clearly stated, either numerically or in conventional terms such as twin size, twin extra-long, etc. In addition, the maximum thickness of the mattress and foundation required for compliance with § 1513.3(a)(5) and (b)(1) shall be stated.</p>	PASS
1513.6(b)	<p><i>Safety warnings</i></p> <p>The instructions shall provide the following safety warnings:</p>	PASS
	Do not allow children under 6 years of age to use the upper bunk.	PASS
	Use guardrails on both sides of the upper bunk.	PASS
	<i>Prohibit horseplay on or under beds.</i>	PASS
	Prohibit more than one person on upper bunk.	PASS
	Use ladder for entering or leaving upper bunk.	PASS
	<p>If the bunk bed will be placed next to a wall, the guardrail that runs the full length of the bed should be placed against the wall to prevent entrapment between the bed and the wall.</p> <p><i>This applies only to bunk beds without two full-length guardrails.</i></p>	PASS

Remark: This / these test(s) was / were performed by SGS Vietnam's Hardline lab.

16 CFR 1213 SAFETY STANDARD FOR ENTRAPMENTS HAZARD IN BUNK BED

Test Item	Test method and Requirement	Result
		1
1213.3 Requirements:		
<i>1213.3(a) Guardrails</i>		
	Any bunk bed shall provide at least two guardrails, at least one on each side of the bed, for each bed having the underside of its foundation more than 30 inches (760 mm) from the floor.	PASS
	One guardrail shall be continuous between each of the bed's end structures. "Continuous" means that any gap between the guardrail and end structure shall not exceed 0.22 inches (5.6mm) (so as to not cause a finger entrapment hazard for a child).	PASS
	The other guardrail may terminate before reaching the bed's end structures, providing there is no more than 15 inches (380mm) between either end of the guardrail and the nearest bed end structures.	PASS
	For bunk beds designed to have a ladder attached to one side of the bed, the continuous guardrail shall be on the other side of the bed.	PASS



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Test Item	Test method and Requirement	Result
		1
	Guardrails shall be attached so that they cannot be removed without either intentionally releasing a fastening device or applying forces sequentially in different directions.	PASS
	The upper edge of the guardrails shall be no less than 5 inches (130 mm) above the top surface of the mattress when a mattress of the maximum thickness specified by the bed manufacturer's instructions is on the bed. <i>This requirement does not prohibit a wall-side guardrail that terminates in a quarter-circle bend and attaches to the side rail of the upper bunk foundation.</i>	PASS
	With no mattress on the bed, there shall be no openings in the structure between the lower edge of the uppermost member of the guardrail and the underside of the upper bunk's foundation that would permit passage of the wedge block of this part when tested in accordance with the procedure at §1213.4(a).	PASS
1213.3(b) Bed end structures:		
	The upper edge of the upper bunk end structures shall be at least 5 inches (130 mm) above the top surface of the mattress for at least 50 percent of the distance between the two posts at the head and foot of the upper bunk when a mattress and foundation of the maximum thickness specified by the manufacturer's instructions is on the bed.	PASS
	With no mattress on the bed, there shall be no openings in the end structures above the foundation of the upper bunk that will permit the free passage of the wedge block when tested in accordance with the procedure at § 1213.4(b).	PASS
	When tested in accordance with § 1213.4(c), there shall be no openings in the end structures between the underside of the foundation of the upper bunk and upper side of the foundation of the lower bunk that will permit the free passage of the wedge block, unless the openings are also large enough to permit the free passage of a 9 inch (230 mm) diameter rigid sphere.	PASS
	All portions of the boundary of any opening required by §§ 1213.4(c)(1) and (2) to be probed by the wedge block, and that permits free passage of a 9-inch diameter sphere, must conform to the neck entrapment requirements of § 1213.4(c)(3).	PASS
1213.5 Marking and labeling		
1213.5(a)	There shall be a permanent label or marking on each bed stating the name and address (city, state, and zip code) of the manufacturer, distributor, or retailer; the model number; and the month and year of manufacture.	PASS

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Test Item	Test method and Requirement	Result
1213.5(b)	<p>The following warning label shall be permanently attached to the inside of an upper bunk bed end structure in a location that cannot be covered by the bedding but that may be covered by the placement of a pillow.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">▲ WARNING</p> <p>To help prevent serious or fatal injuries from entrapment or falls:</p> <ul style="list-style-type: none"> • Never allow a child under 6 years on upper bunk • Use only a mattress that is ___ inches long and ___ inches wide on upper bunk • Ensure thickness of mattress and foundation combined does not exceed ___ inches and that mattress surface is at least 5 inches below upper edge of guardrails <p style="text-align: center;">DO NOT REMOVE THIS LABEL</p> </div>	1 PASS
1213.6	<p>Instructions. Instructions shall accompany each bunk bed set and shall include the following information.</p>	PASS
1213.6(a)	<p><i>Size of mattress and foundation.</i> The length and width of the intended mattress and foundation shall be clearly stated, either numerically or in conventional terms such as twin size, twin extra-long, etc. In addition, the maximum thickness of the mattress and foundation required for compliance with § 1213.3(a)(5) and (b)(1) shall be stated.</p>	PASS
1213.6(b)	<p><i>Safety warnings</i> The instructions shall provide the following safety warnings:</p>	PASS
	Do not allow children under 6 years of age to use the upper bunk.	PASS
	Use guardrails on both sides of the upper bunk.	PASS
	<i>Prohibit horseplay on or under beds.</i>	PASS
	Prohibit more than one person on upper bunk.	PASS
	Use ladder for entering or leaving upper bunk.	PASS
	If the bunk bed will be placed next to a wall, the guardrail that runs the full length of the bed should be placed against the wall to prevent entrapment between the bed and the wall. <i>This applies only to bunk beds without two full-length guardrails.</i>	PASS

Remark: This / these test(s) was / were performed by SGS Vietnam's Hardline lab.

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Test item	Test method	Requirement	Result
			1
Static Load - Edge Test	In house method (as client's request)	No Structure failure when 300 lbs test load is placed on 16" diameter disc 1 inches from edge. Load stays for 30 minutes.	PASS
Distributed Load Capacity	In house method (as client's request)	Apply the load gradually on top of slats. The load stays for 24 hours. Load specification per type of Bed: - Single: 500 lb - Full: 700 lb - Queen/King: 800 lb	PASS Load: 500lbs for upper bunk, 700lbs for lower bunk

Remark: This / these test(s) was / were performed by SGS Vietnam's Hardline lab.

II. CHEMICAL TEST

No.	Components	Material	Color
2	Merlot Coating on Color Panel	Coating on Wood	Merlot
3	Espresso Coating on Color Panel	Coating on Wood	Espresso
4	White Coating on Color Panel	Coating on Wood	White
5	Honey Coating on Color Panel	Coating on Wood	Honey
6	Wood of Charcoal Color Panel	Coating on Wood	Charcoal
7	Wood of Merlot Color Panel	Wood	Merlot Surfaced
8	Wood of Espresso Color Panel	Wood	Espresso Surfaced
9	Wood of White Color Panel	Wood	White Surfaced
10	Wood of Honey Color Panel	Wood	Honey Surfaced
11	Wood of Charcoal Color Panel	Wood	Charcoal Surfaced

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CPSIA section 101(f) and 16 CFR 1303 – Lead in paint/similar surface coating material (^)

Method: CPSC Test Method: CPSC-CH-E1003-09.01 'Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'. Analysis was performed by ICP-MS.

Test Item	Result (mg/kg)					Reporting limit (mg/kg)	Permissible Limit (mg/kg)
	2	3	4	5	6		
Lead (Pb)	ND	ND	ND	ND	ND	10	90
Conclusion	PASS	PASS	PASS	PASS	PASS	--	--

- Note :
1. mg/kg = ppm
 2. 1% = 10000ppm (mg/kg)
 3. ND = not detected
 4. With reference to Test Method CPSC-CH-E1003-09.01 dated Feb 25, 2011, the result is calculated using the minimum sample weight
 5. (^) The content of these test results are extracted from the test report number **VNHL2103005820HG-02** where samples are claimed to be identical

Remark: This / these test(s) was / were accredited ISO 17025:2017 by VILAS.
This / these test(s) was / were performed by SGS Vietnam's chemical lab.
The test results are considered as conform to specification based on the general consideration simple acceptance as stated in ISO/IEC GUIDE 98-4:2012.

Lead in accessible substrate materials (^)

Test Method (non - metallic materials): With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP-OES.

Test Item	Result (mg/kg)					Reporting limit (mg/kg)	Client's requirement (mg/kg)
	7	8	9	10	11		
Lead (Pb)	ND	ND	ND	ND	ND	10	100
Conclusion	PASS	PASS	PASS	PASS	PASS	--	--

- Note:
1. mg/kg = milligram(s) per kilogram= ppm= part(s) per million
 2. 0.1% = 1000 mg/kg
 3. (^) The content of these test results are extracted from the test report number **VNHL2103005820HG-02** where samples are claimed to be identical

Remark: These tests were accredited ISO 17025:2017 by VILAS.
These tests were performed by SGS Vietnam's Chemical lab.
The test results are considered as conform to specification based on the general consideration simple acceptance as stated in ISO/IEC GUIDE 98-4:2012.

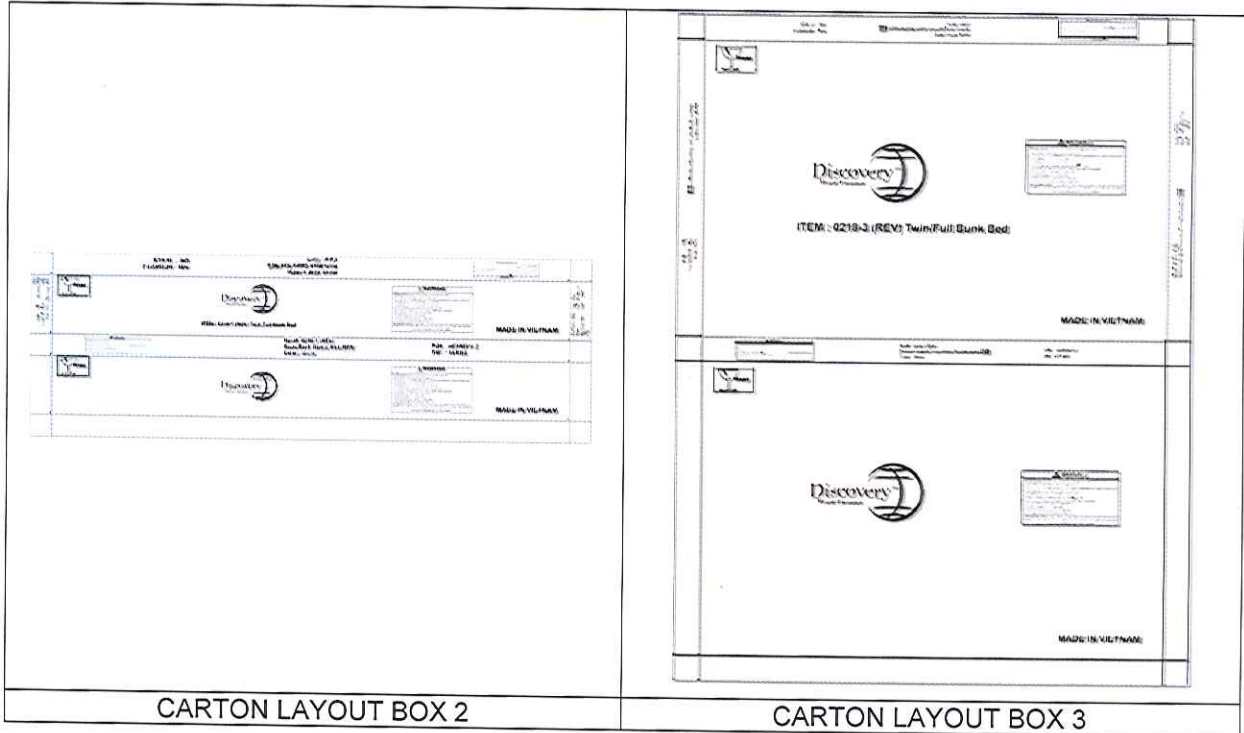


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REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY

*** End of Report ***

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